

10/805,257

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USPAT2  
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NEWS 18 FEB 22 Updates in EPFULL; IPC 8 enhancements added  
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NEWS 21 FEB 28 TOXCENTER reloaded with enhancements  
NEWS 22 FEB 28 REGISTRY/ZREGISTRY enhanced with more experimental spectral  
property data  
NEWS 23 MAR 01 INSPEC reloaded and enhanced  
NEWS 24 MAR 03 Updates in PATDPA; addition of IPC 8 data without attributes  
  
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CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
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=> file chemistry patent

FILE 'ENCOMPLIT2' ACCESS NOT AUTHORIZED

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

=> s glyoxal and (alcohol or methanol or ethanol or propanol or butanol) and  
countercurrent?

25 FILES SEARCHED...

51 FILES SEARCHED...

66 FILES SEARCHED...

L1 270 GLYOXAL AND (ALCOHOL OR METHANOL OR ETHANOL OR PROPANOL OR BUTAN  
OL) AND COUNTERCURRENT?

=> s l1 and (thin(3a)film evaporator or falling (2a) film evaporator or reaction  
column or stirred tank battery)

19 FILES SEARCHED...

37 FILES SEARCHED...

51 FILES SEARCHED...

60 FILES SEARCHED...

69 FILES SEARCHED...

75 FILES SEARCHED...

L2 18 L1 AND (THIN(3A) FILM EVAPORATOR OR FALLING (2A) FILM EVAPORATO  
R OR REACTION COLUMN OR STIRRED TANK BATTERY)

=> dup rem l2

DUPLICATE IS NOT AVAILABLE IN 'AQUIRE, CAOLD, FEDRIP, GENBANK, INVESTEXT,  
KOSMET, RDISCLOSURE, USAN, DGENE, DPCI, IMSPATENTS, LITALERT, PATDPASPC,  
PCTGEN, PROUSDDR, PS, SYNTHLINE'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

PROCESSING COMPLETED FOR L2

L3 17 DUP REM L2 (1 DUPLICATE REMOVED)

=> d 1-17 ti

L3 ANSWER 1 OF 17 USPATFULL on STN

TI (Meth) acrylic esters of polyalkoxylated trimethylolpropane

L3 ANSWER 2 OF 17 EPFULL COPYRIGHT 2006 EPO/FIZ KA on STN

TIEN PROCESS FOR PRODUCING a-HYDROXYCARBOXYLIC ESTER.

TIFR PROCEDE DE PREPARATION D'ESTER A-HYDROXYCARBOXYLIQUE.

TIDE HERSTELLUNGSVERFAHREN FUEr a-HYDROXYCARBONSAEUREESTER.

L3 ANSWER 3 OF 17 USPATFULL on STN

TI (Meth)acrylic esters of polyalkoxylated trimethylolpropane

L3 ANSWER 4 OF 17 USPATFULL on STN

TI Method for the production of esters of polyalcohols

L3 ANSWER 5 OF 17 USPATFULL on STN

TI (Meth)acrylic esters of polyalkoxylated glycerine

L3 ANSWER 6 OF 17 USPATFULL on STN

TI Method for producing alpha - hydroxycarboxylate

L3 ANSWER 7 OF 17 USPATFULL on STN

TI Method for hydrogenating organic compounds by means of ru/sio2 catalysts

10/805,257

L3 ANSWER 8 OF 17 USPATFULL on STN  
TI Process for continuously preparing acetals of alpha, beta-dicarbonyl compounds

L3 ANSWER 9 OF 17 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Production of linear or cyclic acetal, for crosslinking polyvinyl alcohol, treating e.g. paper, leather, cotton or ore, comprises use of continuous **countercurrent** reaction of alpha,beta-dicarbonyl compound and alcohol.

L3 ANSWER 10 OF 17 USPATFULL on STN DUPLICATE 1  
TI Preparation of diacetals of **glyoxal**

L3 ANSWER 11 OF 17 USPATFULL on STN  
TI Surfactant granulates

L3 ANSWER 12 OF 17 USPATFULL on STN  
TI Supported mercaptosulfonic acid compounds useful as catalysts for phenolation reactions

L3 ANSWER 13 OF 17 USPATFULL on STN  
TI Polymeric substrate containing mercapto and sulfonic groups

L3 ANSWER 14 OF 17 USPATFULL on STN  
TI Polymeric substrate containing mercapto and sulfonic groups

L3 ANSWER 15 OF 17 PCTFULL COPYRIGHT 2006 Univentio on STN  
TIEN ISOMERIZATION OF BISPHENOLS  
TIFR SOMERISATION DE BISPHENOLS

L3 ANSWER 16 OF 17 PCTFULL COPYRIGHT 2006 Univentio on STN  
TIEN PROCESS FOR MAKING POLYPHENOLS FROM KETONES OR ALDEHYDES AND PHENOLS  
TIFR PROCEDE POUR FABRIQUER DES POLYPHENOLS A PARTIR DE CETONES OU D'ALDEHYDES ET DE PHENOLS

L3 ANSWER 17 OF 17 USPATFULL on STN  
TI Process for making polyphenols from ketones or aldehydes and phenols

=> d 9 bib

L3 ANSWER 9 OF 17 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
AN 2004-679677 [67] WPIDS  
DNC C2004-242279  
TI Production of linear or cyclic acetal, for crosslinking polyvinyl alcohol, treating e.g. paper, leather, cotton or ore, comprises use of continuous **countercurrent** reaction of alpha,beta-dicarbonyl compound and alcohol.

DC A41 D18 D22 E17 F09 H06  
IN BRUEHL, J; OSTERHOLT, C; RUWWE, J; BRUHL, J  
PA (DEGS) DEGUSSA AG  
CYC 34  
PI EP 1460052 A1 20040922 (200467)\* GE 9  
R: AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV  
MC MK NL PT RO SE SI SK TR  
DE 10312562 A1 20040930 (200467)  
JP 2004285068 A 20041014 (200467) 10  
US 2004186304 A1 20040923 (200467)  
CN 1541993 A 20041103 (200514)

ADT EP 1460052 A1 EP 2004-100262 20040126; DE 10312562 A1 DE 2003-10312562  
20030321; JP 2004285068 A JP 2004-83401 20040322; US 2004186304 A1 US  
2004-805257 20040322; CN 1541993 A CN 2004-31512 20040319

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PRAI DE 2003-10312562 20030321

=> d his

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FILE 'AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUALINE, AQUIRE, BABS, BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CERAB, CIN, COMPENDEX, CONFSCI, COPPERLIT, CORROSION, DISSABS, ENCOMPLIT, FEDRIP, GENBANK, INSPEC, INSPHYS, INVESTEXT, IPA, JICST-EPLUS, ...' ENTERED AT 03:00:57 ON 06 MAR 2006

L1 270 S GLYOXAL AND (ALCOHOL OR METHANOL OR ETHANOL OR PROPANOL OR BU  
L2 18 S L1 AND (THIN(3A)FILM EVAPORATOR OR FALLING (2A) FILM EVAPORA  
L3 17 DUP REM L2 (1 DUPLICATE REMOVED)

=> s glyoxal (20a) (alcohol or methanol or ethanol or propanol or butanol)  
20 FILES SEARCHED...  
44 FILES SEARCHED...  
66 FILES SEARCHED...

L4 3730 GLYOXAL (20A) (ALCOHOL OR METHANOL OR ETHANOL OR PROPANOL OR BUTANOL)

=>

=> l1 and l4

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=> s l1 and l4

43 FILES SEARCHED...  
75 FILES SEARCHED...  
L5 24 L1 AND L4

=> dup rem l5

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L6 18 DUP REM L5 (6 DUPLICATES REMOVED)

=> d 1-18 ti

L6 ANSWER 1 OF 18 EPFULL COPYRIGHT 2006 EPO/FIZ KA on STN  
TIEN PROCESS FOR PRODUCING a-HYDROXYCARBOXYLIC ESTER.  
TIFR PROCEDE DE PREPARATION D'ESTER A-HYDROXYCARBOXYLIQUE.  
TIDE HERSTELLUNGSVERFAHREN FUEr a-HYDROXYCARBONSaeUREESTER.

L6 ANSWER 2 OF 18 GBFULL COPYRIGHT 2006 Univentio on STN  
TI Diamine terminated primary amine-aldehyde adducts for use in scavenging or converting noxious sulphur species, such as hydrogen sulphide and thiols

L6 ANSWER 3 OF 18 USPATFULL on STN  
TI Diamine terminated primary amine-aldehyde sulfur converting compositions and methods for making and using same

L6 ANSWER 4 OF 18 USPATFULL on STN  
TI Method for producing alpha - hydroxycarboxylate



10/805,257

L6 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1  
TI Process for the continuous preparation of diacetals of  
 $\alpha,\beta$ -dicarbonyl compounds

L6 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Process for separating **glyoxal** diacetals from crude mixtures by  
**countercurrent** liquid-liquid extraction

L6 ANSWER 7 OF 18 USPATFULL on STN  
TI Process for continuously preparing acetals of alpha, beta-dicarbonyl  
compounds

L6 ANSWER 8 OF 18 USPATFULL on STN DUPLICATE 2  
TI Preparation of diacetals of **glyoxal**

L6 ANSWER 9 OF 18 USPATFULL on STN DUPLICATE 3  
TI Recovery of zinc from geothermal brines

L6 ANSWER 10 OF 18 USPATFULL on STN  
TI Preparation of tabular emulsion grains rich in chloride

L6 ANSWER 11 OF 18 EPFULL COPYRIGHT 2006 EPO/FIZ KA on STN  
TIEN Preparation of tabular emulsion grains rich in chloride.  
TIFR Preparation de grains d'emulsion tabulaires riches en chlorure.  
TIDE Herstellung chloridreicher tabularer Emulsionskoerner.

L6 ANSWER 12 OF 18 USPATFULL on STN  
TI Process for the continuous preparation of glyoxylic acid

L6 ANSWER 13 OF 18 USPATFULL on STN  
TI Silver halide photographic emulsion

L6 ANSWER 14 OF 18 USPATFULL on STN  
TI Manufacture of formaldehyde

L6 ANSWER 15 OF 18 USPATFULL on STN  
TI Manufacture of formaldehyde

L6 ANSWER 16 OF 18 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN  
TI Glyoxylic acid extn from aq mixt contg **glyoxal** - with  
(cyclo)aliphatic **alcohol**, ketone or ester, for simplicity  
(NL200776).

L6 ANSWER 17 OF 18 USPATFULL on STN  
TI Method for cleaning liquid developers

L6 ANSWER 18 OF 18 USPATFULL on STN  
TI PRODUCTION OF AQUEOUS FORMALDEHYDE SOLUTIONS OF LOW **METHANOL**  
CONTENT BY DISTILLATION WITH A BINARY SYSTEM

=> d 5 bib

L6 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1  
AN 2004:772648 CAPLUS  
DN 141:277254  
TI Process for the continuous preparation of diacetals of  
 $\alpha,\beta$ -dicarbonyl compounds  
IN Ruwe, Johannes; Bruehl, Jutta; Osterholt, Clemens  
PA Degussa A.-G., Germany  
SO Eur. Pat. Appl., 9 pp.  
CODEN: EPXXDW  
DT Patent

10/805,257

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1460052	A1	20040922	EP 2004-100262	20040126
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	DE 10312562	A1	20040930	DE 2003-10312562	20030321
	CN 1541993	A	20041103	CN 2004-10031512	20040319
	US 2004186304	A1	20040923	US 2004-805257	20040322
	JP 2004285068	A2	20041014	JP 2004-83401	20040322
PRAI	DE 2003-10312562	A	20030321		
OS	CASREACT 141:277254; MARPAT 141:277254				

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TOTAL

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323.02

323.23

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L2	4359	countercurrent.clm.	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 03:20
L3	0	l1 and l2	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 03:20
L4	976	(thin near2 film near2 evaporator.clm. ) or (falling near2 film near2 evaporator.clm.) or (reaction near2 column.clm.) or (stirred near2 tank near2 battery.clm.)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 03:22
L5	1	l1 and l4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/06 03:22

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L1	7	("2360959").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/06 01:21
L2	141	(568/603).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2006/03/06 01:21
L3	58559	countercurrent or (thin near2 film near2 evaporator) or (falling near2 film near2 evaporator) or (reaction near2 column) or (stirred near2 tank near2 battery)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 01:23
L4	2	I2 and I3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 01:29
L5	28492	glyoxal or diacyl or (methyl near2 glyoxal)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 01:30
L6	36	I3 same I5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 01:37
L7	82877	acetal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 01:37
L8	147	I3 same I7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 02:20
L9	219	ruwwe.in. or bruhl.in. or osterholt.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 02:20

## EAST Search History

L10	2	I5 and I9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 02:22
L11	4559	alcohol same I5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 02:22
L12	48	I3 and I11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 02:27
L13	18	I2 and I5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 02:47
L14	570	I3 and I5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 02:47
L15	999	diacetal or tetraacetal	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 02:48
L16	4	I14 and I15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 02:52
L17	515	I3 and I5 and (alcohol or metanol or ethanol or propanol or butanol)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 02:53
L18	1297	glyoxal.ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 02:53
L19	6	I17 and I18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/03/06 02:53